Predict Used Car Prices

Isaac's R analysis:
Data and Exploratory Analysis of regression of used car prices:

I split the plot window into a 2x2 grid to display boxplots and histograms of the model_year and mileage of vehicles to see the outliers and the distribution of data; model_year is skewed left and mileage is skewed right.

A correlation would make sense here between mileage and model_year because there are more newer cars and more cars with fewer mileage and there are less older cars and less cars with more mileage.

I summarized mileage and model_year to see where the majority of data was.
Model_year summary results:

```
Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
1974    2013    2017    2016    2020    2024
```

Mileage summary results:

```
Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
100   24500   57500   66043   95798  405000
```

I stored outliers for mileage and model_year columns so that I could remove them from the data set. I then created a copy of the test data frame and removed the stored outliers from the copy of the data frame.

I summarized mileage and model_year from the new dataset created with outliers removed.
New Model_year summary results:

```
Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
2003    2013    2017    2016    2020    2024
```

New Mileage summary results:

```
Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
100   23600   54900   62973   92000  202055
```

The min for model_year changed but everything else stayed the same, indicating that the outliers were on the lower end of model_year. Everything except for the min changed for the milage, indicating that the outliers were on the upper end of milage.
I then created new plots of mileage and model_year columns after the outlier removal in the copied data frame. The data became less dramatically skewed but still skewed in the same directions. There were still outliers in the milage column according to the boxplot, but they weren't outliers according to what math determines to be an outlier.